

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1 of 3

Complete if Known

Application Number	
Filing Date	
First Named Inventor	YOUNG WUK KWON
Art Unit	
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>If known</i>)			
		US- 2,920,480	01-12-1960	T. HAAS	COL 2: 3-6/15-19 / 51-55 COL 3: 3-13/22-27
		US-			COL 6: 21-33
		US-			CLAIM 1
		US- 3,088,083	09-30-1963	HE. WARD	COL 1: 15-44
		US- 3,136,154	06-09-1964	R. H. CHRISTENSEN	COL 1: 42-46, 65-70
		US- 1			COL 2: 14-18, 53-59
		US-			CLAIM NR. 1
		US- 3,272,003	09-13-1966	D. R. HARTING	COL 1: 36-53, CLAIM 1
		US- 3,572,091	03-23-1971	K. H. MCFARLAND	COL 1: 37-43, 52-60
		US-			COL 2: 9-12, 59-60
		US- 3,780,817	12-25-1973	VIDEON	ABSTRACT
		US- 3,782,178	01-01-1974	THOMAS	FIG. 2; COL 1: 22-29
		US-			COL 2: 5, 2L-32
		US- 3,786,679	01-22-1974	CRITES	ABSTRACT; FIG 4
		US-			COL 1: 7-9, 23-27, 49-66
		US-			COL 2: 12-24
		US-			COL 4: 53-59
		US-			COL 5: 1A-1B, 49-53

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>If known</i>)				

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	YOUNG WUK KWON
				Art Unit	
				Examiner Name	
				Attorney Docket Number	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Sheet **2** of **3**

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number <small>Number-Kind Code² (<i>If known</i>)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 3,979,949	09-14-76	SMITH	COL 1: 6-9, 28-26, 35-38
		US-			COL 2: 52-55, 63-64
		US-			COL 3: 9-13, COL 4: 31-34
		US-			COL 5: 18-21, 34-45
		US-			CLAIM 5
		US- 4,081,993	04-04-78	LEONHARDT ET AL	ABSTRACT; COL 1: 6-15
		US-			COL 2: 55-62; COL 6: 18-31
		US- 4,107,980	08-22-78	CRANE ET AL	ABSTRACT
		US- 4,409,841	10-18-83	ARCHER	ABSTRACT; COL 1: 13-42
		US-			COL 4: 34-50
		US- 4,580,520	04-08-86	ARCHER	ABSTRACT; COL 1: 40-47
		US- 4,639,997	02-03-87	BORULL	ABSTRACT; COL 2: 52-62
		US-			COL 3: 4-11; CLAIM 1
		US- 5,237,875	08-24-93	DE LA VEAUX	ABSTRACT; FIGS 1-3;
		US-			COL 1: 8-10, 24-28;
					COL 2: 29-32; CLAIM 1
		US- 5,319,982	06-14-94	CREAGER	ABSTRACT; FIGS 1, 3, 8
		US-			COL 2: 9-25, 44-54
		US-			CLAIMS 1, 9.

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document <small>Country Code³ Number⁴ Kind Code⁵ (<i>If known</i>)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
					T ⁶

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	
				Filing Date	
				First Named Inventor	YOUNG WUK KWON
				Art Unit	
				Examiner Name	
Sheet	3	of	3	Attorney Docket Number	

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. [SEND](#)

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.